

# Elements of the Data Management Plan Procedural Directive

Proposed

# Goals of the DMPPD

- To promote a culture of continual improvement
- To introduce the idea of integrated priorities
- DMPs to be the vehicle NMFS EDM collaboration
- To be simple and straightforward

# Who Should Have a DMP?

- The primary level for administration of DMPs is the division.
- Only those divisions which store or process data require a plan.

# Who Should Have a DMP?

- FMCs may also have a DMP if desired.
- Sub-divisions may have their own DMPs if necessary.
- Divisions may inherit elements of their FMC's DMP.
- Sub-divisions may inherit elements of their division's DMP.

# When Should DMPs be Written & Updated

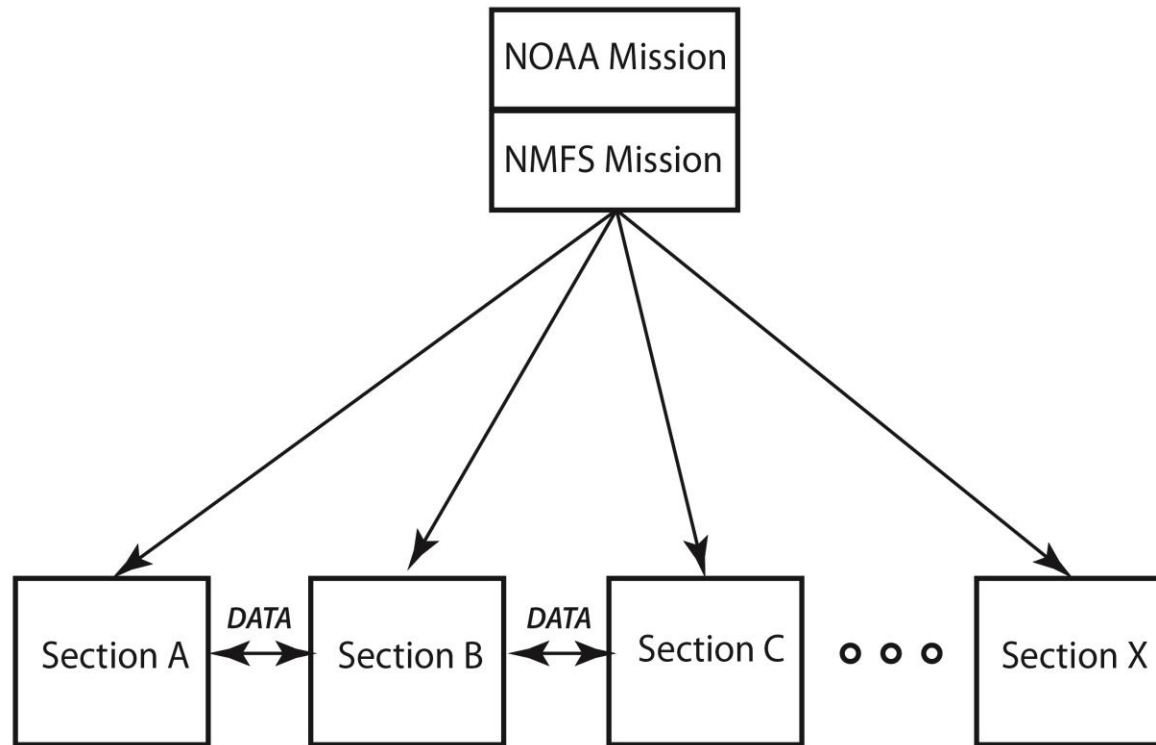
- Divisions should begin writing the initial DMP February 2014, and should have the plan completed by \_\_\_\_\_
- One pilot plan per Regional Office, Science Center, or HQ Office
- DMPs to be updated annually

# Identify data providers and consumers

- Data providers are those entities outside the division who provide data inputs or services to the division.
- Data consumers are those entities outside the division who use the data from the division or its services.
- Knowing the data providers and consumers is essential to defining the relevant EGs.

# Integrated Priorities

Effectiveness Goals defined within this context

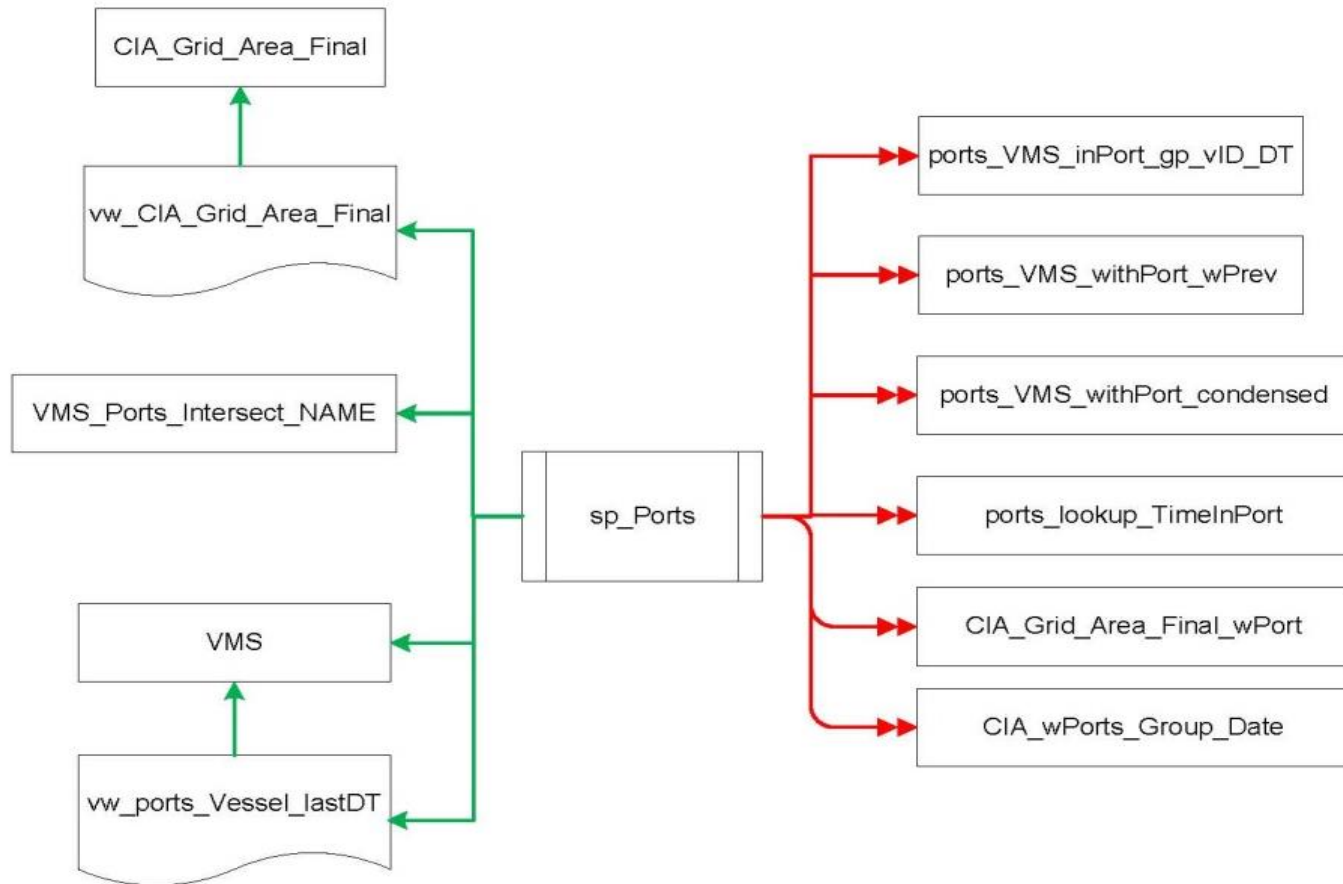


# Specify the current data system state

- Provide dataflow diagram.
- Provide text explaining processing nodes.
- Detail should be sufficient so that a naïve expert could reproduce the system.
- Minimal scope of diagram is portion of system subject to BPs.

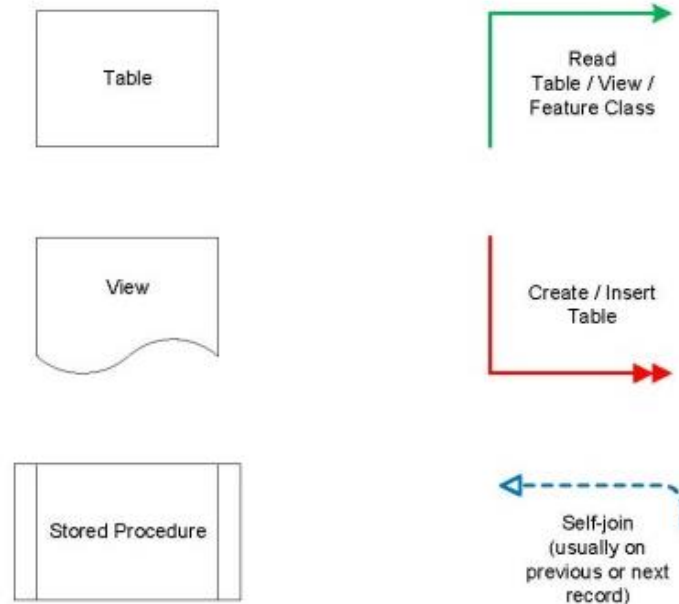


# Flow Chart Example



# Flow Chart Example

## Key



# Identify effectiveness goals with consumers

- Capability
- Accuracy
- Speed
- Cost reduction
- Efficiency
- Confidence

# EG Interactions

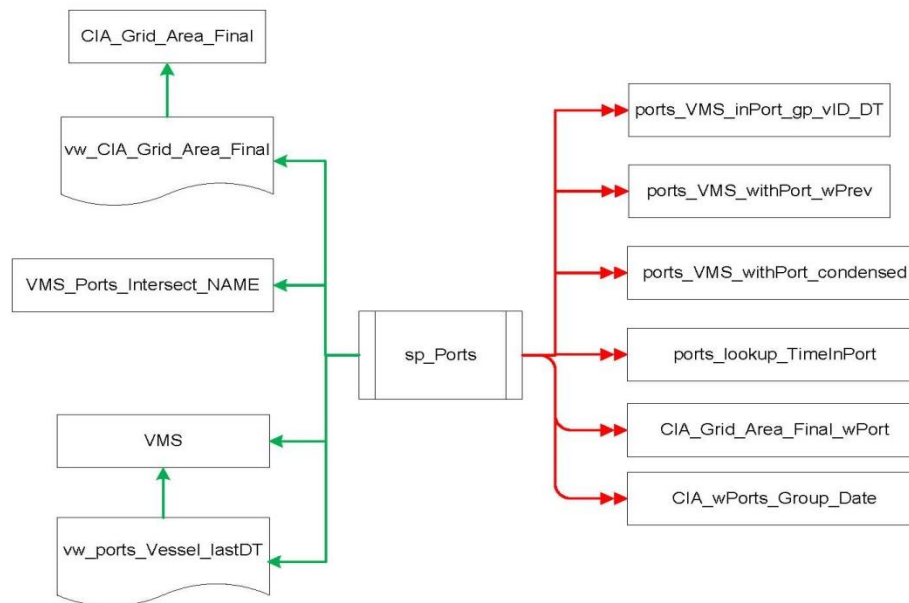
- Not one at the expense of the others
- Net gain

# Identify BPs to achieve EGs

- Include both long term and short term BPs.
- <https://www.st.nmfs.noaa.gov/confluence/display/edm/NMFS+EDM+Best+Practices>
- New BPs can be proposed to the FIMAC for review and inclusion.

# Specify target data system state

- Follow procedures for original system state.
- Reflects expected design changes due to new BP implementation.



# Specify implementation schedule

- Long term goals: Schedule may extend beyond annual update cycle.
- Short term goals: Schedule for 1 year.

# Plan review and approval

- Plan reviewed by the division's IMC and two FIMAC members from other FMCs.
- After review and suggested revisions, approval is by division head.



# Metrics and implementation

- Initiate EG metrics.
- Implement BPs.
- Continue EG metrics to confirm gains.
- Direct measures to be applied whenever possible.
- Proxy measures or deduced improvement otherwise.

# DMP Repository

- All DMPs will be stored in a repository maintained by the FIMAC.

# We have a template!

- <https://www.st.nmfs.noaa.gov/confluence/display/edm/NMFS+Data+Management+Plan+Template>

# Key Steps

That make NMFS DMP unique

1. Identify data providers and consumers.
2. Identify effectiveness goals (EGs).
3. Identify & implement best practices (BPs) to attain EGs.
4. Application of metrics